

GENERATING SET GE 14000 KD/GS

The images are for reference



FEATURES

- Low oil pressure and high temperature automatic engine shut down
- The recessed control panel protect sockets
- Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Ready for connection to automatic transfer unit EAS
- Meets EC directives



air cooled



diesel



three-phase



electric start

POWER RATINGS

* Stand-By three-phase power (LTP)	15 kVA (12 kW) / 400 V / 21.7A
* PRP three-phase power	13.5 kVA (10.8 kW) / 400 V / 19.5 A
* PRP single-phase power	5 kVA / 230 V / 21.7 A
Frequency	50 Hz
Cos φ	0.8

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 3000 RPM

4 STROKE, NATURAL ASPIRATED

Model	KOHLER KD 477/2
* Stand-By net power	14.9 kWm (20.3 hp)
* PRP net power	13.5 kWm (18.4 hp)
* COP net power	/
Cylinders / Displacement	2 / 954 cm ³ (0.954 lt.)
Bore / Stroke	90 / 75 (mm)
Compression ratio	19 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	4.1 lt./h
100 % to PRP	3.7 lt./h
75 % to PRP	2.8 lt./h
50 % to PRP	1.8 lt./h
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	13,3 m ³ /min.
LUBRICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	3 lt.
Oil consumption at full load	< 0,011 kg./h

EXHAUST SYSTEM

Maximum exhaust gas flow	3,48 m ³ /min.
Max. exhaust gas temp.	600 °C
Maximum back pressure	6,7 kPa (0,067 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	
Starter motor power	1,8 kW
Battery charging alternator cap.	25 A
Cold start	/
With cold start aid	- 15°C 1000 rpm / - 8°C 3000 rpm
AIR FILTER	
Combustion air flow	1,26 m ³ /min.
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED	
Continuous power	13,5 kVA
Stand-by power	15 kVA
Three phase voltage	400 Vac
Frequency	50 Hz
Cos ϕ	0.8
Model A.V.R.	/
Voltage regulation acc.	$\pm 5 \%$
Sustained short circuit current	3 In
Transient dip (100% load)	15 %
Recovery time	/
Efficiency at 100% load	82.9 % (400V - Cos ϕ 0.8)
Insulation	Class H
Connection - Terminals	Star - N°4
Electromagnetic compatibility (R.F.I. suppr.)	/
Waveform distortion - THD	< 5 %
Telephone interference - THF	/

REACTANCES (13.5 KVA - 400 V)	
Direct axis synchronous - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X''d	/
Quadrature axis synchronous - Xq	/
Quadr. axis subtransient - X''q	/
Negative sequence - X2	/
Zero sequence - X0	/
TIME CONSTANTS	
Transient - T'd	/
Subtransient - T''d	/
Open circuit - T'do	/
Armature - Ta	/
Short-circuit ratio Kcc	/
IP protection degree	IP 23
Cooling air flow	/
Coupling Bearing	Direct B3/B9 cono38 - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	18 lt.
Running time (75% to PRP)	6.5 h
Starter battery	12 Vdc -37Ah / 330A CCA(EN)

IP protection degree	IP 23
Acoustic power LwA (pressure LpA)	105 dB(A) (80 dB(A) @ 7m)
Performance class (ISO 8528)	G2

CONTROL PANEL

- Engine start and stop key
- Stop warning light for low oil pressure
- Stop warning light for high engine temperatures
- Battery charge warning light
- Hour meter
- Local-Remote Start switch. Position in Remote for operation with the EAS panel
- EAS connector
- Led voltmeter
- Switch magnetomic
- Differential switch
- CEE output sockets: 1x 400V 32A 3P + N + T
1x 230V 32A 2P + T
1x 230V 16A Schuko
- Earth terminal (PE)

WEIGHT - DIMENSIONS AND ACCESSORIES

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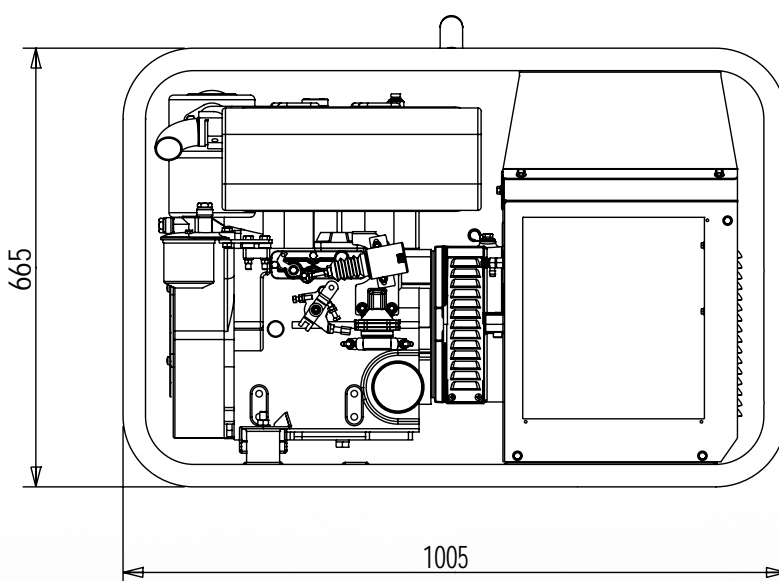
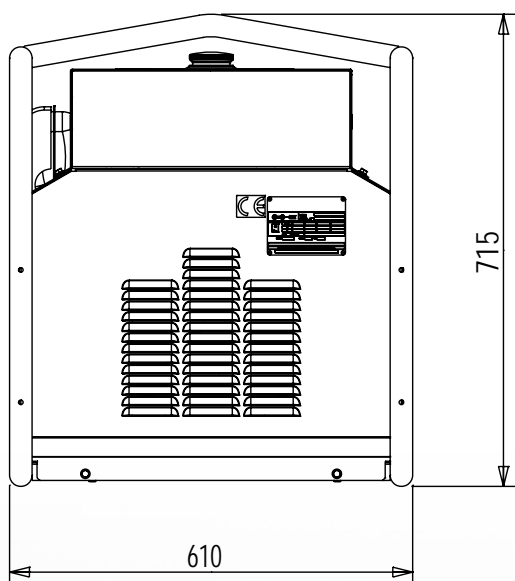
DRY WEIGHT MACHINE:

- 191 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW (mm)



OPTIONS ON REQUEST

- Automatic transfer unit (AMF) EAS 15-806 (25A)
- Remote control TCM6
- Trolley CTM14
- Earthing



VERSIONS ON REQUEST

- /



FACTORY INSTALLATION OPTIONS

- /

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)
2014/35 / EU (Low Voltage Directive)
2014/30 / EU (EMC Directive)
2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

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